

On Cold

In the consideration of chemists cold is but the absence of heat. As heat decaying cold ~~increases~~ increases. Thruout the following pages, in conformity to the established usage of language, the term is used in an active sense. The effects of cold upon inanimate matter are excluded from this treatise.

A full enquiry into the operation of cold upon the constitutions of animals is a task, which I am unable to accomplish. The undertaking is one, which, under the pursuit of an able investigator, might enrich physicians with new, and efficacious means of combating disease; and the great mass of citizens, with prudent measures to obstruct the inroad of many diseases, which afflict them.

Cold prevents the evolution of our frame to its proper stature; and buth. A temperate part of Asia is

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The weather was very cold and the wind was very strong. The snow was very deep and the ice was very thick. The water was very cold and the air was very dry. The ground was very hard and the trees were very bare. The sky was very blue and the sun was very bright. The clouds were very white and the stars were very clear. The moon was very full and the stars were very bright. The sky was very blue and the sun was very bright. The clouds were very white and the stars were very clear. The moon was very full and the stars were very bright.

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said to have been the native land of our first ancestors, Adam, and Eve; their posterity gradually spread themselves, until they peopled every quarter of the globe with the admission of this doctrine, and the resemblance of parent and child, in the same country, or brother, we must acknowledge, that the variety in mankind have been stamped by other causes than generation, and among these climate is most conspicuous. Cold exerts its unfriendly influence upon vegetables, as well as animals. The third grand division of nature, or the mineral kingdom, is out of the question. Being without life, they increase by laws which are not dependent on life. Leaving this part of the subject, with these general remarks, the effects of cold, as connected with physiology, will be briefly considered. The term, physiology is here used in its common signification, a description of the functions of the human body.

To Secretion

(Menstruation is arranged under this head. At

puberty begins an aptitude to productive intercourse
 between the sexes. Menstruation is necessary to prepare
 the female for conception. In cold latitudes this func-
 tion is delayed until the twentieth year; whereas, in
 warm climates, even pregnancy has occurred at the
 ninth year, according to the records of travelling. In
 the male, the venereal appetite appears later in
 cold countries; it is also stronger in summer than
 in winter. At the return of spring, the venereal
 organ is felt by a great part of animal nature.
 The late puberty of the ancient Germans, which Cae-
 sar ascribes to hunting, may have been owing in
 part, to the coldness of the climate. A view of
 nations in cold, and warm latitudes, strengthening
 the probability of the above observation. Those
 parts of North America situated beyond the Canadas,
 are inhabited by a people (the Esquimaux, and others)
 thinly dispersed, and few in number: Russia in Asia,
 which exceeds in extent European Russia, containing but
 four millions of inhabitants. The manners, and customs

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food, and clothing of civilized society, render the body almost insensible to the influence of cold; hence the European Russians, Swedes, and Norwegians differ but little from the people of more temperate clime.

The southern countries of Europe, and Asia swarm with people; and, even in the sixteenth century Cortez, & Pizarro found a numerous population in Mexico, and Peru. If some of these countries are, at the present time, less populous than in former ages, my proposition is not disproved by the fact. This contrast of numbers, in cold and hot countries, may be explained by reference to a difference of climate. While in warm climates, the multiplication of our species is premature, and rapid, cold countries, which have not been blessed with civilization, are almost destitute of inhabitants.

To the head, revivings, belong perspiration, and the function of the kidneys. The skin, and kidneys, have the power of doing double duty, without being discarded. When the perspiration is checked by cold,

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such is the natural connection between the skin, and kidneys, that the latter become the outlet to the perspirable matter. In summer urine is scanty, and perspiration profuse; the reverse is the case in winter. That cold lessens the discharge by the skin is admitted by all. Its paleness and rigidity, the facility of accounting for our sensation of cold from the low temperature of the air, and the greater frequency of inflammation in negroes than in white people, tend to establish its truth.

To prove that cold lessens the secretion of bile, let us advert to the following truths, bilious diseases do not prevail in winter, and cold countries, but belong to summer, and autumn; and increase in malignity as we approach the torrid zone.

To Digestion

To aid digestion, a degree of cold agreeable to sensation is very advantageous; this is proved by the keen appetite, and vigorous digestion of those who do not expose themselves to an

extreme to us; cold in winter; they become more fleshy, and
 enjoy greater pliancy of body, and mind. When summer returns,
 the body is reduced, and its vigor impaired. Every one, who
 has felt the refreshment, and comfort consequent to cool be-
 lie in summer, knows its utility. The cold bath, often, we
 know, the health of our citizens; and, under the prescription
 of the judicious physician, frequently restores it. Theriacals
 are produced, in a great degree, by its operating on the digestive
 organs. But in health the internal use of cold, in any
 degree, is unjust. I am not prepared to deny. It is often
 useful in the various combinations, in which it is received
 into the stomach. Before meals, a draught of cold water
 blunts the appetite. In summer, cold water is drunk to
 quench thirst, lessen the heat of the body, and check
 perspiration; it increases, with few exceptions, the se-
 cretion at this season of the year. It is true that some
 fluid is necessary to supply the waste by the skin; and
 for this purpose, cold water ^{it may} be employed by drinking, which,
 if cool, are required in less quantity, because they mod-
 erate the cutaneous discharge, by increasing others, or by
 some mysterious agency.

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To Absorption

The function of our economy is excited by cold, through the sympathetic agency of cold upon the lacteal vessels, a good main source of it is so useful in digestion. Some drooping are well cured by the cold water. Cold applications are used to disperse certain humours, and effect the absorption of excrement in blood, and lymph. Scrophula is cured by sea bathing. It is remarkable ^{that} this disease breaks out at the approach of warm weather. When cold is so long applied as to weaken the blood vessels, absorption in the intestines ^{parts} the body may be unimpaired. When cold is thus applied, the superficies of the body is almost paralyzed, and the lacteals, which sympathize, will suffer. The influence of cold does not reach the absorbent, so soon as the sanguiferous vessels, the sympathetic sympathizing so constituted, that an effect induced upon one part is not felt throughout the whole; though the superficial absorbents, and the lacteals, by sympathizing, may suffer, those which ramify in every part of the body may continue active. On the contrary, the heart is

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The great first cause of the circulation of blood, and is to
 the arterial, what the sensorium is to the nervous sys-
 tem. It is also a sensible organ, possessing a wide sym-
 pathy in our body, rendering it liable to be affected by
 slight causes; when it beats high, every artery, coolingly
 and when its motion is feeble, that of the arteries is,
 likewise. These absorbents, which are not injured by
 cold, incessantly work our body; and its replenishment is
 not interrupted to the legs, because the office of the
 lacunae is suspended by cold, and, the deposition of new
 matter is less, in consequence of the feeble circulation.
 If the above observations be true, we can account for
 the emaciation of those, who use the cold bath to excess.
 Dr. Huxham observing "that most who use the cold bath
 grow somewhat leaner, though more vigorous, and active."
 A gentleman of thin habit, vivacity of spirit, and much
 exercise, used cold bathing, in the sea, very frequently
 he lost much flesh and spirit. He used a sufficient quan-
 tity of food. It is obvious that the good, and bad
 effects of cold, proceed from a different cause in its degrees

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On the effects of cold on the nervous system much might be said. It excites to action the nervous power, and by its continuance, it is exhausted, or made quiescent. When ^{death} ~~this body~~ approaches, the body feels not the cold. Cold ends its fatal operations, by putting a stop to the circulation.

Of the effects of cold on the sanguiferous system, I cannot speak with accuracy. Observations, and experiments are wanting. Reason here is a fallacious guide.

Because fractures are more frequent in cold, than in warm weather, an opinion has prevailed; that cold increases the fragility of bones. The song, while the power of locomotion continues, experiences no change of temperature. Dr. Physic has offered a more plausible explanation, viz. inordinate muscular action to guard against falling.

To muscular contraction, a moderate degree of cold gives mobility, and vigor.

— Hence the limbs
 Resist into power, and the same Roman arm,
 That is victorious over the conquered earth,
 Is not learned, while tender, to subdue the weaker.

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Cold seems to give quickness, and energy to muscular motion, in two ways. 1st By its influence upon the ~~living~~ ^{nerve} system, and 2^d. By increasing the excitability of the ~~simple~~ ^{nerve} muscular fibres.

Muscular action is known to be invigorated by gentle pressure. It may, at first seem, appear, that cold gives this pressure by condensing the atmosphere; but there are some facts, which have a tendency to contravert this notion. The ascent of vapour, and precipitation of rain, hail & snow; the eternal snows of the Alps and Andes, together with thermometrical observations, prove that the higher regions of the air are colder than that, in which we move; but that their density is less, the ascent of ballooning, vapour and smoke, only to a certain height proves. Balloons, vapour and smoke would not rise, unless they had reached a stratum of air not exceeding themselves in specific gravity. The mercury of a barometer falls, as we ascend mountains. Saussure was nearly disabled from his ascent to the summit.

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of Mount Blanc, and thrown into a fever, by reason of the rarity of the atmosphere. Humboldt, on the Andes, had hemorrhagy from his nose & ears. In consequence of the rarity of the upper strata of air, vapour floats in light, and by their coldness, philosophy teaches us, it is unmitted to our globe.

The second division of my subject comprising some remarks, on cold, in a pathological view?

Cold is said to destroy more of the human race, than the sword. It is not consistent with the order of creation, that cold, or heat, should be actual: The Creator has provided against a sudden change, by ordaining, that the transition shall be gradual, from the intense heat of the summer, to the intense cold of the winter solstices.

He has left to man the task of fortifying himself against the calamitous effects of the changes, which daily occur; the advancement, and simplification of science may enable him to finish it in a distant age.

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valent opinion, concerning the modus operandi of cold, is that of Brown, or Darwin, viz that it accumulates the excretability, or sensorial power, by withdrawing the stimuli of heat; it thus predisposes the body to diseased excitement, when heat is resupplied. This doctrine is not of universal application. When women expose themselves to cold, whilst menstruating, disease is no more produced, to be thus accounted for; when perspiration is checked by cold, disease often follows instantaneously; the disease is often in a part, remote from that which has been cooled.

When the whole body is in the perfect performance of its action, a suspension of the discharge by the skin is followed by an increase in the quantity of urine; but when any part is susceptible of disease, its production will be the consequence. Cold is often continued with more time, than alone, when it is very destructive; or it is from the concomitance of cooling in the moisture that it is so highly prejudicial. Is not this exemplified in the account Sir John Pringle has given of

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of the disease, which thinned the ranks of the British army in Flanders, and Germany. This may be enthusiasm; On the bowels, diarrhoea; dysentery cholera, and colic; even in the muscles, rheumatism, and tetanus; in the sanguiferous system, inflammation, and fever. When an epidemic disease rages, cold, facilitates its attacks. Hoping to be excused for our hints on the foregoing part of the disease of our subject, the disease, produced by drinking cold water, and by immersion in it, will be treated of at some length.

Through the ignorance, and impatience of people, sudden death is often the consequence of drinking cold liquids, most frequently, cold water; fatigue, and suffering with thirst, the unfortunate victims have drunk in haste, and without moderation, the draught was suddenly fatal.

It is the duty of those who provide over the health of our citizens, to investigate the causes of this calamity, and lay down precautions, which, if attended to, may prevent it. Two have embarked in this work of their.

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ment, Dr. Rush, and Dr. Currie; to the disappointment of the people their doctrines are contradictory, and the choice is left to themselves. The circumstances of this case, have not been carefully observed, nor dissection made to ascertain the condition of the body, that light might be shed upon its nature. Dr. Currie has collected some ancient history numerous facts to confirm his opinion; but these are recorded by historians, not physicians. Where facts are not circumstantially detailed they give to our reasoning an obliquity, which will forever mislead us in our search for truth; nevertheless with the materials, in my possession, I shall venture to support another opinion.

The disease is thus described by Dr. Rush "In a few minutes after the patient has swallowed the water, he is affected by a dimness of sight; he staggers in attempting to walk, and unless supported falls to the ground; he breathes with difficulty; a rattling is heard in his throat; his nostrils and cheeks expand and contract in every act of respiration; his face ap-

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being suffused with blood, and of a livid colour; his extremities become cold, and his pulse imperceptible; and unless relief be speedily obtained, the disease terminates in death in four or five minutes."

"This description includes only the less common cases of the effects of drinking a large quantity of cold water, when the body is preternaturally heated. More frequently the patients are seized with acute spasms in the heart and stomach. These spasms are so frequent as to produce syncope, and even asphyxia. They are sometimes of the tonic, but more frequently of the clonic kind. In the intervals of the spasms the patients appear to be perfectly well. The intervals between each spasm become longer or shorter according as the disease tends to life or death." "Three circumstances generally ^{concur} ~~combine~~ to produce disease, or death from drinking cold water. 1st. The patient is extremely warm. 2^d. The water is extremely cold. And 3. A large quantity of it is suddenly taken into the body. The danger from drinking cold water is always in proportion

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to the degree of combination which occurs in the above
 circumstances that have been mentioned." Dr. Pousie
 insists that the more the body is heated the less
 is the danger; he considering the advice of Dr. Nash
 to those, who will drink. It will not be deemed
 presumptuous, I hope, to object to Dr. Pousie's opinion.
 Theaving that the deaths, produced by drinking
 cold water, are the result of the loss of heat. Im-
 mersion also, producing death, he not loses, by detaining
 the body of heat. He asserts that more heat is lost
 by perspiration, and evaporation, than by immersion.
 It follows from these premises that these unfor-
 tunate beings should have expired before they plunged
 into the water, since they were surrounded by an
 element, which conducted away more heat, than that
 into which they passed. These proportions are brought
 together to show the inconsistency of his doctrine;
 I shall not dispute that more heat is lost in
 the bath, than out of it.

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When we pass from a high to a low temperature; our sensation, at first, going up in imagination & change; and the degree of it. When we lose heat by the evaporation of sweat, we are sensible of it, in proportion to the loss. Those persons, who die from drinking cold water, are heated & perishing gradually; but there is no perception of cold from the conversion of sweat into vapour; can the body then sustain any loss of heat by the skin. These deaths occur, when the atmosphere is still & sitting, when the evaporation cannot be great. In such weather the sweat trickles from every part of the body. When our sweat is vapoured we have a pleasant sensation of coolness, and have no desire to swallow draughts of cold water. The evaporation is of that kind, by which the water of our globe is transpired, and collected in clouds - it is slow, and not sensible, unless the air is agitated: the sweat is not suddenly disrilled in vapour by a boiling heat. The loss of heat is so slow in a hot, and sultry day, that it is replaced by the sun, and we have no sensation of cold.

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Dr. Cullen converted water into ice by evaporation; Dr. Boerhaave explained the miracle, and extended his doctrines to the elucidation of many great phenomena; Dr. Franklin taught that the dissipation of sweat kept the heat of the body uniform; Dr. Fordyce & Sir George Blagden have proved by experiments on themselves, that the heat of the body is unchanged in air heated to 260 degrees. We conclude then, that an increase of temperature in the atmosphere does neither raise nor lower the heat of the human body. When water is drunk, in summer, it is the only power that cools the body; and the dissipation of heat is the cause of death; the quantity of water, which those drink, who are destroyed by it, should at all times prove fatal. By Dr. Cuvier's experiments, the heat of the body was sometimes reduced to 83 degrees. Can a pint of water absorb in a minute as much as this man lost without the consequence of death?

After relating Dr. Cuvier's account of the operation of cold water in producing death, I shall avail myself of some facts, contained in his work, to support another opinion.

[illegible]

A draught of cold water is fatal, because; from the ex-
hausted state of the system, it is incapable of reaction
I use the word, reaction, as expressive of a fact, without
any allusion to the action of life. When the receipt
of the cold is not great, the system is the stronger; but
if very cold, the reaction is more the reverse; but
when a large quantity of cold water is received into a sys-
tem exhausted almost incapable of action, it sinks
irrecoverably in death.

"Blasius, seminis, familiaris, noster, et condiscipulus, dum
linguiscula temporis sub ardenti primo sole patet hinc in cal-
siget, me calore rectus ad fatigationem remissus, in sub-
terraneum locum, ubi vivamus cum cellula, descendit
pugil, primo vini calorem haurit, quo fatis. Statim desinit"

"Elegans et optimae staturae juvenis Romanus, cum suis
ludent, et sudore repleverat, ac talis madidus, et fatigatus
ad fratrem, prorsus accensa unguis, exhausta frigida reans
per culticium extracta, illis in terram incidit, et abiit."

"In Plinius, Caelius, an account is given of the march
of Alexander the Great, in pursuit of Porus, through

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The country of the Arabian, which is represented as ~~and~~ destitute of water, stone, and covered with scorching sands. The insupportable heat, fatigue, and thirst of the soldiers in their march through this burning desert, are described with all the florid eloquence of the Arabian. At length fainting under their toils, they reached the banks of the river Euphrates where by indulging large draughts of the stream, Alexander lost a greater number of his troops than in any of his battles, but gain'g an interlocking moment's intercourse, *inhibere, extincti sunt; multoque majorem numerum numerumque inter, quam ulle amiserat, perdidit*. The desert afterwards was upwards of 16 English miles across; they began their journey in the night, and reached the Euphrates towards evening.

A terrific death from drinking cold water is a frequent occurrence in harvest and mowing time; most frequently (so are the labouring persons) after running a race. The horses, who die in this way, are *perishing* freely. Dr. Keene thinks that this cooling process, together with the water drunk, is the cause of death.

[illegible]

but thousands, who drink as much cold water, are unhurt
 but, though they use it as frequently. It is evident
 that they were usually, 'satiated,' and it is only those,
 who are exhausted by labour, that expire. I have endeav-
 oured to show, that the heat of the human body va-
 ries but little in summer and winter, in heat, and cold.

Dr Rush says "I know but one certain remedy for
 this disease, and that is liquid laudanum." Life is so
 stunned by the impression from cold water, that to
 measure the quantity of medicine to the excitability,
 we give small, and frequent doses of laudanum.

When the external application of cold water
 produces death, it is made upon bodies in an exhausted
 condition—they are unable to react. The impression
 made upon the skin by cold water is not more for-
 midable than that made upon the stomach by drink-
 ing it, because it is a less delicate part of our frame.
 Against Dr Evered's explanation I offer the argu-
 ments of our heat, and the rare occurrence of death from
 this cause?

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Alexander, after a very difficult, and fatiguing march, stripped, and plunged into the Euxine for the purpose of refreshment. What befel him is thus described by Quintus Curtius "Vixque ingredit subitis horum undarum rigore coheruit; Gallor inde suffragit, et solum prohemachum coctus vitalis color reliquit. Exierunt simul ministri manus exhibuit, nec satis confortem meritis in tabernaculum deferunt. He had marched in haste to secure the pass in Mount Taurus by which Cilicia was to be entered; he thence continued his march to the city of Taurus. Overcome with fatigue, he sought refreshment in the waters of Euxine. It is probable that the activity of his rising passion was suspended that night. The new patches of the 'suffragit' and luxury of bathers. The bath was especially more exposed to the cold swimming of immen men in cold water. The strong exercise passion, ambition and hope, not the nature of his soul: it was not his nature to enervate himself, and health, but during this qualification. When his wounds were his permission, he sat down and with a quiet and serene.

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What a set then is exerted were the passions, which
exceed his strength and indeed vigour, is his constitution.

The following is an extract from Dr. Huxham's essay on
swimming "During the great heating summer there is a
luxury in the heat, however warm we may be, in swimming,
which have been thoroughly warmed to the sun. But to
throw ourselves into cold, strong water, when the body has
been heated by exercise in the sun, is an immoderate excess
more than just. I once knew an instance of, one young
man, who, having worked a harvest in the heat of the
day, with a view of refreshing himself, plunged into a
river of cold water, two died on the spot, a third
a week afterwards, and the fourth recovered with great
difficulty."

The exerting of the Roman youth in swimming
and diversions were never the cause of inconvenience.
1st Because they were not fatigued by exertion: it is pro-
bably the length of the contest would not allow of fatigue,
since it was an amusement and swimming terminated
the contention. 2^d Because the limbering action

[illegible]

gunw to the heart and arteries by running would not subside before the sudden imbuition from immersion had vanished. 3.^d They were accustomed to them.

The safety of going from the hot to the cold is that, in from the hot bath to wallowing in the snow (a Russian practice) is accounted for, when we consider that no even exercise was used previously.

On the morning of the 14th of October, 1840, the government of St. Petersburg were informed that the Russian soldiers were in the full enjoyment of health, and were also saved from death, among a cold air, which is a much slower conductor of heat than water — the imbuition was unperceptible. On these experiments Dr. Currie remarks that they continued exposed naked to the cold air till the next week, but as the natural standard, their situation would have been very dangerous. Their heat was two degrees above the natural standard. What should the sufferings of those men be, whom there of the season, whom Dr. Currie changed to a bath 36 degrees below the temperature of the summer water,

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and afterwards exposed for several minutes to a cold
north-east wind. I will not deny that cold is hurtful, by
reason of its depriving the body of heat; but, when cold
is thus incident, what its injurious effects must arise
from its agency upon the nervous system; and from this
fact we may deduce the impropriety of the very pro-
cedure, that the salt & water counteracts the debilitat-
ing effects of its coldness on the body. Water, in which
salt is dissolved is a better conductor of heat than pure
water; it follows that the stimulus from its application
would be more energetic. It will likewise receive addi-
tional stimulating power from its impregnation.

I have only to add, that if my opinion be well found-
ed, it will follow that the greatest the heat the great-
er is the danger when cold water is added. The pre-
cautions inculcated by Dr Rush will be recommended
by reason, as well as sanctioned by experience. The
partial application of cold, in some degree, reviving the
sensitive body, and warming the person of the impression,
which is its follow. Both mind & body are prepared to
meet the shock.

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The third, and last division of my subject will be the application to the cure of disease, or its relation to Therapeutics

Cold, which, by reason of our ignorance, is so destructive to life, is already in the hands of Physicians a curable remedy. We are prone to find in the works of creation a tendency to destroy our happiness: as if we were blind when we reflect, that the human understanding is conformed to the comprehension of the whole economy of Providence. "It is but a part we see, and not the whole."

The further human genius has penetrated into the re-creating scheme of the universe, the deeper is the conviction that all is harmonious, and adjusted to work out general good. The elements, which are foundations of good, and the instruments of beneficence in the hands of Providence, are often the cause of disease, and death. This apparent error in the world may be rendered harmless by the achievements of our intellect.

Heat and cold, which often cut short the life of man,

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and the rare the fruits of his industry, may be so applied
as to promote his health and cure his disease. Though
design, or accident cold has in all ages been a remedy for
disease but it is only in recent times, its application has
been resorted to by certain mankind. I cannot trace the
history of cold as a remedy from the ancients to the
moderns, because unacquainted with the writings
even of the most celebrated men of antiquity. Having ne-
glected to choose a subject for a dissertation at an early
period of my studies; a few notes, Dr Cuvier's reports, and
my father's reflection shall furnish me the materials,
with which I have undertaken the work.

I shall suppose that cold every oftenest be the
impression it produces. I believe this to be its modus
operandi, because the experience of every one tells him
that it is a stimulus to the nervous system; because
the affusion is more efficacious than prolonging, by this
other means the heat can be as much lowered, as in
the former, but the impression is not so strong, and
universal; and, because it often recals to active life

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feverous, where heat is below the healthy standard.
 When I ascribe stimulation to cold, I do not mean it
 is a positive effect. I will not deny that cold is benefi-
 cial, on account of its restraining heat. Affusion makes
 impression as well by the impulse and quantity as by
 the contact of the water. It longings can not relieve
 heat, and soothe sensation. Immersion differs from
 plunging in the continued withdrawal of heat, and the
 thermic energy of immersion. Where the body is plunged
 in water, immersion acts in the same mode with affu-
 sion, but is probably more powerful. The protraction
 of length in typhus fever will often exclude the
 employment of immersion.

Water is tepid, when warm, but not so hot to the
 sensations; and is in the way of affusion from 5° to
 9° degrees of Fahrenheit's scale. Cool water is next in
 power to cold. Tepid water acts chiefly by attract-
 ing heat; it does this by evaporation, and relaxing
 the structure of the skin. The sudden impression up-
 on sensation, which it produces, is not so great as that
 from cold water used in the same mode.

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In the first place, it is not a case equally of
the experience of Quinine, but there is a
continual tension, when it is of the specific kind,
and it is not, and, when there is no such action
but a sensible, very insens. These acts are common
on the first day, and experience has established their
utility in the disease, which they are now as to this.
(If they have arisen from erroneous eating, the cause
invariably be the cause of consequences. Excessive
eating, that insatiable stomach is craved in forms
of high action. In this form of action, (which)
enhance the action of Quinine, and indeed, it is said, in
the skin is a favourable sign in this disease, and Dr. Rush
remarks that a high temperature indicates the up-
coming of health. We can readily see, on the cold water
can do no good in this stage of the disease, and ^{might} be
invaluable in so exhausted a state of the body. Since the heat
is readily above the natural standard, there is strength
enough in the constitution to react under this stimulus, in
part to water: this is therefore requisite before the use.

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of this powerful remedy. When in Typhus fever the heat is below the natural degree, the strength is greatly exhausted, life has forsaken the subject, and only lingers in the centre; the body in this condition cannot be benefited by the use of cold water. It may be injured by the least heat, which is yet a feeble stimulus to life.

It may be said, the debility in Typhus fever is greater than that of the bilious, who die from drinking, or immersing himself in, cold water; but in the former such is the affection of the nervous system, that it is insensible to the stimulus of wines, brandy, camphor, spiritus volatile alkali, musk, and Cassia; ^{of} ^{the} ^{fever} that shock from cold water, which would any other the life of the man weakened by exertion, would, saidly be felt by a person in Typhus fever.

The instances are numerous, where patients in the delirium of fever have plunged into the sea or river, or come out into the air, or much benefited. Dr Lind, treating of a fever, which attended the arrival of the English settlement in Guinea says "the disease nearest to it is called a

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nervous fever, as the pulse was always low, and the brain
 and nerves, principally affected. It began sometimes with
 a vomiting, but oftener with a delirium. Its attack was
 commonly in the night, and the patients, being then
 delirious were apt to run in the open air. I observed
 them frequently to recover their senses by means of the
 strong winds which at that time, fell upon their naked
 bodies. In Typhus fever, i.e. cold water, or vinegar &
 water are applied to the head to calm the delirium.
 The topical application of cold in diseased brain from
 other causes is recommended. In the fever of Jamaica
 Jackson contrived his patients, to sit with their feet
 in warm water, while the cold effusion was made upon
 their heads, ^{and} removed the delirium. In mania
 Dr. Rush applied cold water to the head, while the
 feet were in the warm bath. Shaving the head is recom-
 mended in mania; and the clay cap was once in vogue.
 The internal use of cold water should be resorted to
 under the same restrictions, which are prescribed for
 its external application. When there is no sense of

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stillness present, when the heat of the surface is
noticeable above what is natural, and, when there is no
general or profuse perspiration."

"In inflammatory fever I am ignorant whether
the general application of cold water has been recom-
mended by any writer. The remedies are evacuations,
and among these always diaphoretics. The fevers of the
Quakers are thus treated by themselves." The patient
is confined in a close tent or wigwam over a hole in the
earth, in which a red hot stone is placed; a quantity
of water is thrown upon the stone, which is, with
involving the patient in a cloud of vapour; in this
situation he nursing out, and plunges himself into a
river, from whence he returns to his bed. If that remedy
has been used with success, he rises from his bed in
four and twenty hours, perfectly recovered from his
indisposition. Dr. Rush (from whose work this ac-
count is taken) says "involved in a cloud of vapour &
perspiration. I have omitted the word perspiration,
because I think it could not be so instantaneous."

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duced; and, it should be a certain truth to shake one of the rules which Dr Currie has furnished for the use of cold water "When there is no general or profuse perspiration." This practice of the American Indians is followed in Finland, and Russia, where fever is probably inflammatory. Dr Franklin, when a young man, was attacked by a fever; and, having read of the utility of cold drink in producing sweating, he adopted the practice, which was successful, and restored him to health. It is reasonable that in every instance of inflammation, fever cold drink might be allowed under the restrictions given by Dr Currie. It would be safest however to give it in small, and frequent draughts; by watching its effects, we might determine whether to continue, or cut short its use. As soon as the pores of the skin are opened, warm drink should be substituted.

Petious fever, which in some forms runs such ravages on human life, and feels a step to summer, has been cured by cold water as a remedy.

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It has been most successfully used by Dr Jackson in the fever of the Island of Jamaica. It is in this case can only be the reason, for which it has not been generally adopted. Physicians would never abandon a remedy, a cure, or a certain application, and betake themselves to the lancet, purgatives, mercury, bark, &c. unless they had met with disappointment.

In intermittent fever Dr Currie used the cold bath, which prevented the attack of one paroxysm; the affusion was used two hours before the expected accession. The next paroxysm was unusually violent, and in the hot stage the affusion was made: the symptoms abated, and the patient fell into a profound sleep. "The afterwards continued the bath as before, and from this time forward was free of disease." It appears that the affusion was but an auxiliary to the more powerful remedy bark. When a better remedy is declared to the world, it supplants that, which before was predominant, when the prejudicing of physicians has been over. Bloodletting, or internal vaccination,

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alone; or alternated with warm bottles. It was often
succeeded by evacuation. In the Yellow fever of
1793 Philadelphia Dr Rush tried it, and desisted it. Dr
Huang, who introduced it also had recourse to other
remedies. Dr Rush found cool air beneficial; he attend-
ed a physician of the city, and, when he entered the
room judged it necessary to bleed; the window was closed,
and the patient fanned by a breeze which had
just come on the table. The bleeding was omitted.
The effect of cold in such the patient is a curious
inquiry. In cases of high action it sometimes lessens
the frequency and force of the pulse, while in typhus
fever it lessens the frequency, and gives force to the
pulse; at least this is the effect of cold in man.
Baron de Senneville relates, that in his voyage to
South America a sailor in typhus fever was carried
from a warm unventilated room below to an airy
place on deck, where he was expected to die; from
the time of his removal he grew better until he
was, in fact, restored to health.

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In these cases we are obliged to remove the matter
 first and afterwards to the same kind of cathar-
 tics. The rectum, and the sigmoid colon are the organs
 for this purpose. The advice of Dr. Parry
 (Smith's) is, to use the catheter, until the inflammation
 is extended to evacuation. The advice of the same
 author is, that cold applications to the rectum in
 inflammation should be preceded by evacuation. Dr.
 Ogle has taught us that the cold should not
 be agreeable to the patient's feelings. The Phlegmon
 it is desirable in most instances to remove by
 action and discutient measures are omitted. The
 Broom, and Decid's ice has been used with advantage.
 I will here leave to remark, that the indiscriminate
 use of these remedies for fever is injudicious. The
 circumstance of these residents, which requires most to
 be mitigated is thirst. Where the fever is of a moderate
 extent, the system generally does not sympathize;
 and we may without choice apply a remedy; but
 where fever is extensive, an additional indication

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claims our attention. The patient should be
 insured the accident, and must be notified
 the more care I need not be inconstant to the
 patient, and his complaint, and is inevitably fatal.
 He should therefore select those articles. Which, while
 they mitigate pain, maintain the action of life; and
 of these Mr. Gent's ointment is best; hands, wings
 and perhaps similar virtues.

"*De Curia morbi*" I have only to add that
 the application of cold water, when fever
 is combined with local inflammation, is a subject of
 much difficulty, and my observations upon it must
 wait for the elucidation of future experiments."

The application of cold water in dead local inflam-
 mation sends up the blood to the centre, and
 cause an irremediable congestion in the intor-
 vels. It was used however by Dr. Jackson in yellow
 fever, which disposition has shown to be accompanied
 with inflammation of the stomach and intestines.

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only a small quantity should be drunk. It will soon acquire the temperature of the body, and, instead of constringing the muscles of the vessels, will relax them. It will also distend by its quantity, and keep patent the bleeding orifices. When bleeding from wounds does not cease spontaneously, the ligature is used. The Indians stop the bleeding from wounds by immersing the spot in cold water.

Dr. Smallpox, says the issue of an illustrious Sydenham treat externally and cordials internally were prescribed. This great man protested against the practice and set on foot an innovation, for which posterity have bestowed on him their gratitude and veneration. He prohibited cordials, and admitted cool air to his patients during the eruption of fever. When the eruption appeared, he put his patients to bed, and kept them only warm to promote the maturation of the vesicles. Dr. Currie justly supposes the cold affusion to be improper after the eruption.

[Faint handwritten notes, possibly bleed-through from another page.]

He used it in the eruptive fever, and thus describes its effects. "The patient had a rapid and feeble pulse; a red mouth and pain in the head, back, and loins; heat 107 and pulse 119. I encouraged him to drink largely of cold water, and lemonade, and threw three gallons of cold wine over him. He was in a high degree refreshed by it. The eruptive fever abated in every respect, an insipient delirium ceased, the pulse became slower, the heat was reduced, and tranquil sleep followed. In the course of four and twenty hours the agitation was repeated three or four different times at his own desire; a general diuresis having been given, & call for it as soon as the symptoms of fever returned. The eruption though more numerous than is usual from inoculation was of a favourable kind. There was little or no secondary fever, and he recovered rapidly."

In measles the heat should not be excessive; the cool air, and treatment of Dr Syden-

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warm should be enforced? Such a degree of cold
as would repel the eruption should be guarded a-
gainst, lest a pulmonary disease should be the
consequence.

The *Scorbutica Anginosa* is a dis-
ease which excels the affusion of water. In the
early stage of the disease, when the skin was
raised to 100 degrees, he used the cold affusion;
at a more advanced period the cool; and some
times the tepid affusion. He has the testimo-
ny of many practitioners, and in particular of Dr
Ferguson in its favour. When used in the early
stage of the disease it seldom failed to stop
its progress. The symptoms of this disease
are so unlike in different persons, and at dif-
ferent times, that it is doubtful whether the
use of cold water would always be advantageous.
This remedy has gone into disuse; it will always
be an unwellcome one and we have others equal
in power.

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In medicine the use of warm water has been long known. Celsus says it will immediately stop the increase of dysentery. In China Linch' Hsi found it to be good. In Tetanus it is often used with success in West India. It was used with advantage by P' Linnæus at Amstel. He says the water should be used in the night of the paroxysm. Celsus thought it good of Rheumatism, even joints if he should be seized with Tetanus. In the convulsions affecting children Celsus thinks the cold bath very useful. In experience, a majority of practitioners is in favour of warm bathing. Cold water has often quieted the convulsions of children. In Tetanus, and other spasmodic diseases the body does not feel sensible to the impression from cold water. In acute nervous power seems to be called into requisition for muscular action, as in the language of Darwin the sensorial power of relation and association excite the sensorial power of sensibility.

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In diseases of the alimentary canal cold is sometimes useful. I have already said it is the cause of many of them; indeed warm extremities are the very safeguard of health against a majority of diseases.

The benefits of country air in cholera infantum are unrivalled. Dr Rush used the cold bath in this disease with much advantage. Dr Egleston in his work on the disease, "Minerva meliora" than the French physicians had often assured him that they found nothing more beneficial in violent debilitate cholera than drinking of cold water which practice is recommended by many of the ancients. The cold bath, and cold drink are directly contrary to the present treatment of this disease. In cold elixirs of cold water have been used, and the dashing of it on the lower extremities is said to have procured stool, when all other means had been used in vain.

He who stands on cold floors, will be forced to endure urinae. suppression of urine arising from

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spharmedia structure has often been ~~reduced~~ ^{altered} by cold to the hypogastric region, and lower extremities.

Strangulated hernia has sometimes been reduced by bladders of ice or cold water applied for a length of time in the hernial sac. Cold here is not an antispharmedia. Mr Cooper has without a shadow of probability supposed that the stricture is sometimes caused by a spasm of the part encircling the neck of the sac. It is hard to suppose that what cannot be made to contract by chemical and mechanical irritants should be excited to contraction by the congenial hernial sac. Cold contracts the parts to which it is applied. It is the cause of cuts insensibilis, and shrinking of the extremities. A physician once had his foot so reduced in volume by this cause that his shoe fell from it. Does not it happen that congestion of stagnant blood, which is the proximate cause of mortification? It

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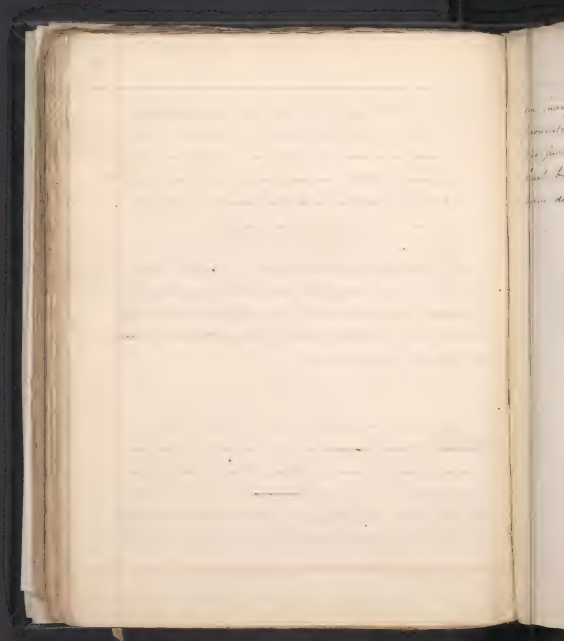
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loosens the calibus of the blood-vessels, and causes
 the vein covering the tumour to contract, and
 more closely embrace the tumour. It thus tends
 to increase of the tumour, which by its weight
 is carried into the cavity of the
 uterus.

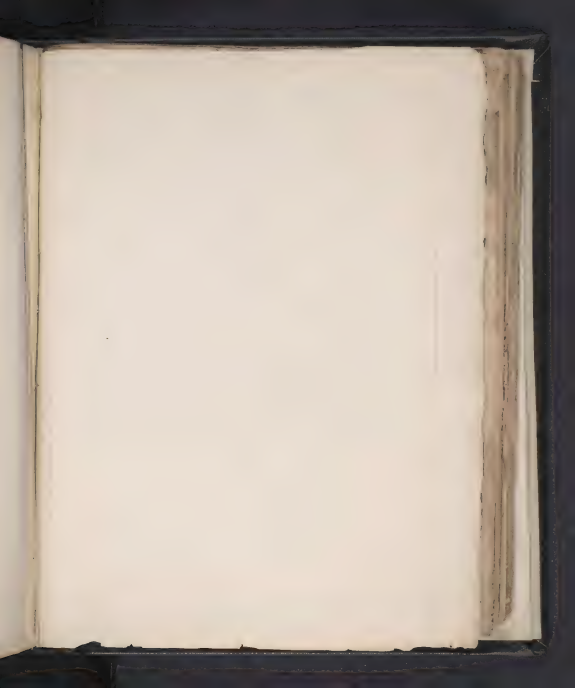
(My friend Dr. Branner informed me
 that he had seen the obstinate vomiting of
 pregnant women checked by dissolving ice in the
 mouth and swallowing it, after all other means
 had proved ineffectual.)

and it is not to be wondered at, that I have
~~written~~ ~~and~~ ~~written~~ it is not exempt from error
 in many parts of it. Many interesting discussions
 in physiology have not been touched, and I have
 seen and neglected in a theoretical conversation.
 But I have written several cases, the most common, &c.



an inaugural dissertation, and have not time to
revise my manuscript. I hope it will answer
the purpose for which it is designed it will at
least be a vehicle of my gratitude to those who
have discharged their duties with fidelity, and





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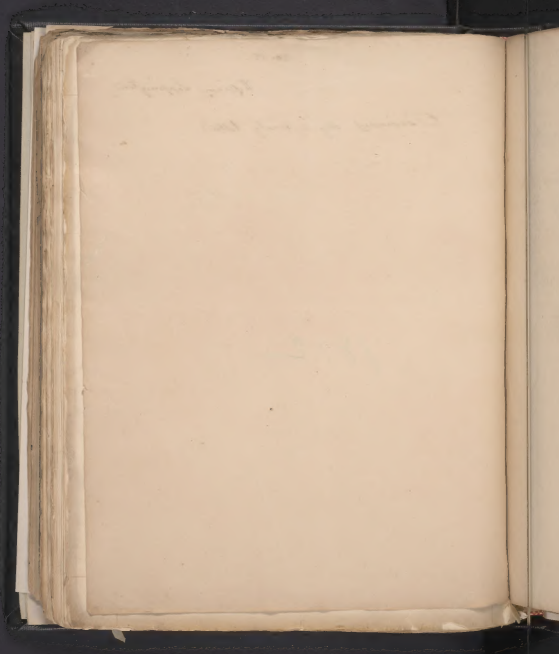
No. 12.

William Lappington

Psoriasis, dry & scaly letter

Due: of Wm B. Lappington.
1812 N^o 60.

1812



My dear Mr. Garrison

I have just received your letter

of the 14th inst. and am glad to hear
that you are so much interested in
the cause.

I am very glad to hear that you
are so much interested in the cause.

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